

Recovery Plan Action Status

Plan Name: Beach Mice (3 spp.)

Plan Status: Final

Plan Date: 12-Aug-87

Lead Agency: USFWS

Lead Office: Panama City Ecological Services Field Office

(4890)

769-0552)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus altophrys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	1	Conduct life history and habitat studies. (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: General	Contract, Graduate Student, Internal Field Assistance, Internal Technical Assistance	FWS lead for ABM & CBM studies; ISU contract for ABM research;FWC lead in research on SABM & species status survey methods
Choctawhatchee beach mouse (Peromyscus polionotus altophrys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	10	Develop cooperative programs to reestablish beach dunes	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	After Hurricane Opal FWS formed partnerships with federal and state land managers to restore dune habitats on coastal public lands. 2009 new project underway to enhance and accelerate dune /mouse habitat areas on Johnson Beach Unit of GUIS. Ongoing county HCP negotiations detail ways for permittees and stakeholders to improve, restore, and enhance bm habitat across the board.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	2	10.c	Develop cooperative programs to reestablish beach dunes(Choc. Beach mouse)	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	After Hurricane Opal FWS formed partnerships with federal and state land managers to restore dune habitats on coastal public lands (Topsail Hill Preserve SP, Grayton Beach SP, Deer Lake SP.)After the hurricane seasons of 2004-2005 the FWS funded the state of Florida to produce and research woody dune vegetation for scrub dune restoration. The program continues. The FWS also funded genetic fingerprint research on sea oats to try and adress the issue of restoarion of dunes using Gulf coasta vs Atlantic coast species of sea oats.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	11	Plant vegetation to stabilize and reestablish beach dunes (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Contract, Internal Technical Assistance	FWS continues to fund a FDEP Greenhouse for growing dune plants for coastal public lands; After Hurricane Opal FWS formed partnerships with federal and state land managers to restore dune habitats on coastal public lands. Technical expertise sought from Dr. Debra Miller (UFL) on the structure, species and methods to most efficiently restore beach/dune habitats for the benefit of beach mice included in planting and restoration projects that are currently underway on GUIS (2009)
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	12	Maintain improved habitat areas (All mice)	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	After Hurricane Opal partnerships were formed to restore the dune habitats on state & federal coastal public lands. FEMA relief funds, post storm replanting of washover and damaged dune areas, and some physical creation of berms occurring after storms of 2004 (Ivan), Dennis, and Katrina 2005.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	13	Obtain easements	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, Division of Realty, Fish and Wildlife Enhancement	Acquisition: Easement	Internal Administrative, Internal Technical Assistance	Easements are provided for in sec 7 consultations and ITPs
Choctawhatchee beach mouse (Peromyscus polionotus allophtys)	1	16.c	Identify unprotected habitat(Choc. Beach mouse)	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement	Research: Other Information	Internal Field Assistance, Internal Technical Assistance	1999 FWS began seeking land acquisition grants. Two areas of cBm habitat were purchased in 2004, Walton County. Additional id of areas needed for protection include publication of revised critical habitat for the CBM in 2006.
Choctawhatchee beach mouse (Peromyscus polionotus allophtys)	2	16c	Acquire habitat for CBM	Ongoing Current	FY 2000 - FY 2004		Fish and Wildlife Enhancement	Acquisition	Contract	2 tracts of CBM habitat have been purchased with grants from the FWS: Stallworth County Park and the Garfield Tract in Walton County FL. Both tracts are adjacent to FL State Park lands.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	17	Monitor activities on privately owned lands (All mice)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Research: Management Techniques, Research: Population Assessment, Research: Population Surveys	Internal Administrative, Internal Field Assistance, Internal Technical Assistance	Section 7 consultations & HCP/ITPs ongoing for ABM, PKBM, and CBM.HCPs on 5 properties for PKBM in FL; 2 HCPs for CBM-require monitoring of bm on property. The FWS continues to assist public land managers to conduct surveys. In 2008, FWC funded by the FWS completed a "LONG-TERM MONITORING OF BEACH MOUSE POPULATIONS IN (NW) FLORIDA" report.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	18	Conduct genetic studies	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Research: Genetics	Graduate Student	Genetic research was conducted in the 1990s (Wooten 1994, 1999) on all subspecies. Current work completed by Van Zant Phd dissertation 2006 and and Hoekstra continues
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	2	18.c	Conduct genetic studies(Choc. Beach mouse)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Research: Genetics	Graduate Student, Species Expert	Genetic research was conducted in the 1990s (Wooten 1994, 1999) on all subspecies. Current work continues by Van Zant and Hoekstra) new Genetic work by Vignieri also focus on CBM at Topsail Preserve.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	19	Identify areas where populations need to be reestablished or supplemented	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement	Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance	FWS works with our state, federal & private partners to identify areas needed for BM reestablishment. In 2007, 5 year status reviews have identified some key areas for PKBM and CBM. Mainland of St Andrews State Park, Possibly Henderson Beach and Camp Helen, evaluation of Grayton Beach for possible supplementation work. (ongoing 2009)
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	1	19.c	Identify areas where populations need to be reestablished or supplemented(Cho c. Beach mouse)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement	Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance	FWS with our federal and state, NGO partners have completed several reestablishments for CBM since the 1980s. The most recent reintroduction occurred in 2003-2005 when we moved mice from Topsail Hill State Preserve to WaterSound, a private development.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	2	Reevaluate public use regulations	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Other: Regulations	Contract, Internal Administrative, Internal Technical Assistance, Species Expert	Bon Secour NWR has the lead for AL. Our federal and state partners consult with us under the ESA to make sure any changes in their public use policies or operations do not jeopardize or adversely affect beach mice.
Choctawhatchee beach mouse (Peromyscus polionotus allophtys)	2	2.c	Reevaluate public use regulations(Choc. Beach mouse)	Ongoing Current	FY 1995 - FY 1999		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement	Management: General	Contract, Species Expert	Other federal and state agencies have the lead, however, the consult with FWS under the ESA to make sure any changes in their public use policies or operations do not jeopardize or adversely affect beach mice. Beginning in 2007 we have been working with the State of FL on a Statewide HCP for their CCCL permitting program; Walton County with an HCP for coastal armoring.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	1	20	Determine population size and monitor trends	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Acquisition: Fee Title	Internal Field Assistance, Internal Technical Assistance	The FWS and its partners (NGOs, FWC) continue to conduct status surveys for BM subspecies. The FWC completed a final report in 2008 funded by the FWS "LONG-TERM MONITORING OF BEACH MOUSE POPULATIONS IN (NW)FLORIDA" that included the status of PKBM, CBM, and SABM.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	2	21.c	Determine age, sex, and number to be removed from existing populations(Choc. Beach mouse)	Ongoing Current	Prior to FY 1995	FY 2000 - FY 2004	Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Reintroduction	Internal Technical Assistance	Since reintroductions of CBM have occurred in the 1980s, the FWS and our partners preapre a translocation plan that specifies the number of mice that can be removed from a donor population to assure that population would be unaffected by the removal.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	1	22	Determine which recovery action to follow	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: General	Internal Technical Assistance	The FWS and our partners (States, NGOs, GINS, BonSecour NWR) continually review recovery actions and prioritize their implementation. They can change quickly or need to be redone when severe weather events like hurricanes occur.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	1	22.c	Determine which recovery action to follow(Choc. Beach mouse)	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Management: General	Internal Technical Assistance	Priorities for recovery action completion is currently dictated by the 2004 & 2005 hurricane seasons

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	1	23	Translocate beach mice	Ongoing Current	Prior to FY 1995		National Park Service, U.S. Fish and Wildlife Service, Division of Realty, U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: Reintroduction	Internal Technical Assistance	No translocations took place in 2007. There are multiple areas that need reintroduction or due to hurricanes affects require additional population translocations or supplementations

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allophtys)	1	23.c	Translocate beach mice(Choc. Beach mouse)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement	Management: Reintroduction	Internal Technical Assistance	First translocation of CBM occurred in late 1980s. CBM from Shell Island and Auburn captive bred mice were reintroduced to Grayton Beach State Park western and central units. Central unit reintrocudtion was successful. The western unit was not. For research purposes CBM were translocated from Shell Island to Grayton Beach SP central unit in the late 1990s and early 2000s. Translocations were not successful but useful data was collected. Translocations of CBM from Topsail Hill Preserve SP to WaterSound a private development occurred in 2003 & 2005. Population persists. No translocations conducted in 2007-08. No translocations done in 2008 or early part of 2009, but could be occurring soon.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	24	Develop plans for captive breeding colonies	Ongoing Current	Prior to FY 1995		Fish and Wildlife Enhancement	Management: Propagation	Contract	2008-09 Contract with Zoologic to investigate the captive breeding of PKBM for reintroduction. Zoologic is preparing a plan for the captive breeding pilot project with the addition of captive breeding CBM to see if feasible to breed and reintroduce captive bred mice vs wild caught mice. In the early 1980s FWS contracted with the AL Research Coop Unit at Auburn University to captive breed ABM, PKBM, and CBM. Some captive breeding was successful other were not. Some mice were reintroduced back to the wild. However, due to the high cost of lab rearing and the difficulty of obtaining adequate numbers of wild mice and reintroduction back to the wild the program was discontinued in the early 1990s. In 2007 a captive breeding feasibility meeting was held. Assessment has been made that recovery actions should not focus on captive options.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	2	24.c	Develop plans for captive breeding colonies(Choc. Beach mouse)	Discontinued			Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Phoenix	Management: Propagation	Internal Technical Assistance	No longer a recovery focus for CBM.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	25	Evaluate possible captive breeding strategies (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Contract, Internal Technical Assistance, Species Expert	In 2007 a captive breeding feasibility meeting was held to discuss captive options.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	26	Design facilities to maintain and breed beach mice (All mice)	Not Started			Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Labor type not yet selected	In 2007 a captive breeding feasibility meeting was held. Assessment has been made that recovery actions should not focus on captive options.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissylleipsis)	2	27	Investigate shore-term breeding strategy potential (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit, Phoenix	Management: Propagation	Contract, Internal Field Assistance, Internal Technical Assistance	In 2007 a captive breeding feasibility meeting was held to discuss captive options.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	3	3	Enforce all regulations (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Other: Regulations	Internal Technical Assistance	Public land managers have the lead to enforce regulations on their lands. However, FWS works with public land managers to enforce regulations on public lands as needed.
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	3	3.c	Enforce all regulations (All mice)(Choc. Beach mouse)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement	Other: Regulations	Internal Technical Assistance	State Parks in FL, Tyndall Air Force Base have the lead as the public land managers. PCFL has lead in enforcing provisions of ITPs on private lands

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	4	Maintain predator control programs	Ongoing Current	FY 2009		Animal Damage Control (USDA) , Fish and Wildlife Enhancement	Management: Predator and Competitor Control	Internal Administrative	FWS formed a state federal partnership in 1997 to contract with USDA-Wildlife Service to conduct predator control on coastal public lands. Program continues into 2008, although State of FL budget cuts may have an affect on program continuation of state lands. Service has received 2009 monies to continue the program.
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	5	Determine effect of house mice on beach mice (All mice)	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, Animal Damage Control (USDA) , Florida Department of Natural Resources , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Research: Competition	Labor type not yet selected	Research conducted in the 1980-1990s was completed. Additional research not identified.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allophtys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	3	6	Develop cooperative agreements with other agencies	Ongoing Current	FY 2009		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Animal Damage Control (USDA) , Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Work type not yet selected	Labor type not yet selected	FWS working with FL Park Service on an MOU to reintroduce CBM into historic habitats 2009(St Andrew SP). In 2007 & 2008 the FWS provided the State of FL (FDEP) via FWC with an grant to prepare an HCP for their CCCL permitting program.
Choctawhatchee beach mouse (Peromyscus polionotus allophtys)	3	6.c	Develop cooperative agreements with other agencies(Choc. Beach mouse)	Ongoing Current	FY 2009		Florida Game and Fresh Water Fish Commission, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement	Work type not yet selected	Labor type not yet selected	2009 FWS on MOU with FL Park Service to introduce CBM to St. Andrew State Park. In 2007, the FWS entered in to an MOU with the State of Florida and Walton County, FL for coastal armoring and the protection of coastal species including CBM. We also provided Walton County via FWC with a grant to prepare an HCP for coastal armoring.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus alloparys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	7	Install boardwalks to protect habitat (All mice)	Ongoing Current	Prior to FY 1995	FY 2006	Florida Game and Fresh Water Fish Commission, U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement, Phoenix	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Public land managers in AL & FL have all implemented the concept of using and installing dune walkovers. Unfortunately following hurricanes they need replacement which can be costly. Some State parks in FL have opted to provide on-grade pedestrian paths instead of replacing boardwalks. The FWS review a pilot project in 2008 for the use of mobility mats for pedestrian walkways.
Choctawhatchee beach mouse (Peromyscus polionotus alloparys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	8	Relocate access trails and parking lots to protect habitat	Ongoing Current	Prior to FY 1995		Florida Game and Fresh Water Fish Commission, National Park Service, U.S. Fish and Wildlife Service National Wildlife Refuge System, U.S. Army Corps of Engineers, Alabama Department of Conservation and Natural Resources, Bureau Land Management , Florida Department of Natural Resources , United States Air Force , United States Coast Guard , Fish and Wildlife Enhancement, Alabama Cooperative Fish and Wildlife Research Unit	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	FWS works with coastal public land managers when feasible to relocate structure out of benthic habitats if destroyed in a hurricane or incorporate into new design plans

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Choctawhatchee beach mouse (Peromyscus polionotus allopshys)	2	8.c	Relocate access trails and parking lots to protect habitat(Choc. Beach mouse)	Ongoing Current	FY 2000 - FY 2004		Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	PCFL participates on State Park land Magmt Plan reviews and Park rebuilds after Hurricane Ivan in 2004 and 2005 seasons. In 2008, the FWS has been working with FL Park Service to redesign visitor beach access at Grayton Bch State Park to reduce damage to recovering dunes. Grant in development that will concentrate beach use to the eastern portion of Topsail Preserve State Park that will reduce the amount of foot traffic damaging dunes on the western portion of the preserve. (2009)
Choctawhatchee beach mouse (Peromyscus polionotus allopshys), Alabama beach mouse (Peromyscus polionotus ammobates), Perdido Key beach mouse (Peromyscus polionotus trissyllepsis)	2	9	Install scavenger-proof trash receptacles and insure frequent pick-up (All mice)	Complete	Prior to FY 1995	FY 2006	U.S. Fish and Wildlife Service National Wildlife Refuge System, Alabama Department of Conservation and Natural Resources, Florida Department of Natural Resources , United States Air Force , Fish and Wildlife Enhancement, Phoenix	Management: Predator and Competitor Control	Internal Technical Assistance	All public lands have instituted the concept of installing predator proof trash receptacles. FWS continues to require install on private lands where applicable. 2009 ongoing recommendations whenever discussions with public landowners are appropriate to reinforce the need for predator proof trash receptacles.